CLAIMS

The following is claimed:

1	1. A conveyor comprising:			
2	a modular conveyor belt including:			
3	a plurality of mat-top chains having a plurality of cavities; and			
4	a plurality of first rollers disposed in the cavities of the mat-top			
5	chains; and			
6	at least one second roller that operatively couples to the first rollers such			
7	that the first rollers rotate as the conveyor belt travels along the second roller.			
1	2. The conveyor as defined in claim 1, wherein the at least one second roller			
2	is located underneath the conveyor belt and the at least one second roller rotates in a			
3	direction transverse to the rotational direction of the first rollers as the conveyor belt			
4	travels along the at least one second roller.			
1	3. The conveyor as defined in claim 1, wherein the at least one second roller			
2	is positioned to rotate substantially perpendicular to the direction of belt travel.			
1	4. The conveyor as defined in claim 1, wherein the mat-top chains comprise			
2	hinge elements that link multiple mat-top chains together to form a conveyor belt.			
1	5. The conveyor as defined in claim 4, wherein the hinge elements comprise			
2	interleaved hinge elements having axially aligned holes.			
1	6. The conveyor as defined in claim 1, further comprising a plurality of			
2	support members that supports the conveyor belt.			

1	7. The conveyor as defined in claim 1, wherein the at least one second roller				
2	is vertically displaceable toward or away from the conveyor belt, wherein when the at				
3	least one second roller is displaced toward the conveyor belt and engages the first rollers,				
4	the at least one second roller rotates the first rollers as the conveyor belt travels along the				
5	at least one second roller.				
1	8. A conveyor as defined in claim 7, wherein the at least one second roller is				
2	vertically displaced toward or away from the conveyor belt using an air actuator,				
3 hydraulic actuator, ball screw actuator, or solenoid actuator.					
1	9. The conveyor as defined in claim 1, wherein rotation of the at least one				
2	second roller causes the first rollers to rotate with reduced slippage.				
1	10. The conveyor as defined in claim 1, wherein the first rollers are aligned in				
2	the cavities of the mat-top at an angle that is different from the direction of belt travel				
3	enabling the first rollers to convey objects toward the sides or the middle of the conveyor				
4	belt.				
1	11. A conveyor comprising:				
2	a modular conveyor belt including:				
3	a plurality of mat-top chains having a plurality of cavities; and				
4	a plurality of first rollers disposed in the cavities of the mat-top chains;				
5	and				
6	at least one second roller that operatively couples to the first rollers such				
7	that the first rollers rotate and the at least one second roller rotates in a direction				
8	transverse to the rotational direction of the first rollers as the conveyor belt travels along				
9	the at least one second roller, wherein the rotation of the at least one second roller causes				
10	the first rollers to rotate with reduced slippage.				

1	12. The conveyor as defined in claim 11, wherein the at least one second roller				
2	is located underneath the conveyor belt.				
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1	13. The conveyor as defined in claim 11, wherein the at least one second roller				
2	is positioned to rotate substantially perpendicular to the direction of belt travel.				
1	14. The conveyor as defined in claim 11, wherein the mat-top chains comprise				
2	hinge elements that link multiple mat-top chains together to form a conveyor belt.				
1	15. The conveyor as defined in claim 14, wherein the hinge elements comprise				
2	interleaved hinge elements having axially aligned holes.				
1	16. The conveyor as defined in claim 11, further comprising a plurality of				
2	support members that supports the conveyor belt.				
1	17. The conveyor as defined in claim 11, wherein the at least one second roller				
2	is vertically displaceable toward or away from the conveyor belt, wherein when the at				
3	least one second roller is displaced toward the conveyor belt and engages the first rollers,				
4	the at least one second roller rotates the first rollers as the conveyor belt travels along the				
5	at least one second roller.				
1	18. A conveyor as defined in claim 17, wherein the at least one second roller is				
2	vertically displaced toward or away from the conveyor belt using an air actuator,				
3	hydraulic actuator, ball screw actuator, or solenoid actuator.				
1	19. The conveyor as defined in claim 11, wherein the first rollers are aligned				
2	in the cavities of the mat-top at an angle that is different from the direction of belt travel				
3	enabling the first rollers to convey objects toward the sides or the middle of the conveyor				
4	belt.				

1	20.	A method for conveying objects, the method comprising:		
2		driving a modular conveyor belt in a direction of belt travel;		
3		rotating a plurality of first rollers disposed in the modular conveyor belt in		
4	a manner in which slippage of the first rollers is reduced; and			
5		conveying objects on the conveyor belt using the rotating first rollers.		
1	21.	The method as defined in claim 20, wherein rotating the first rollers		
2	comprises engaging the first rollers with the at least one second roller as the conveyor bel			
3	travels along the at least one second roller.			
1	22.	The method as defined in claim 20, wherein rotating the first rollers		
2	comprises rotating the first rollers by rotating the at least one second roller in a direction			
3	substantially transverse to the rotational direction of the first rollers as the conveyor belt			
4	travels along the at least one second roller.			
1	23.	The method as defined in claim 20, wherein rotating the first rollers		
2	comprises sele	ectively rotating the first rollers with the at least one second roller.		
1	24.	The method as defined in claim 23, wherein selectively rotating the first		
2	rollers comprises vertically displacing the at least one second roller toward the conveyor			
3	belt and engaging the first rollers, the at least one second roller rotating the first rollers as			
4	the conveyor l	pelt travels along the at least one second roller.		
1	25.	The method as defined in claim 20, wherein rotating the first rollers		
2	comprises rotating the first rollers at an angle that is different from the direction of the			
3	belt travel.			
1	26.	The method as defined in claim 20, wherein conveying objects on the		
2	conveyor belt comprises conveying objects toward the sides or the middle of the modular			

conveyor belt.

3